

ASAFLEX LIQUID
Revision Number 2.01

Revision Date 30-Jan-2018
Supersedes Date: 23-Aug-2017

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name ASAFLEX LIQUID
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Polymer additive.
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

1.4. Emergency telephone number

Emergency Telephone 24 Hr: 0800 243 622
+64 4 917 9888
Poison Centre : 0800 764 766

E-mail address SDS.AP@Bostik.com

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

| | |
|------------------------|-------------------|
| Acute aquatic toxicity | Category 3 (9.1D) |
|------------------------|-------------------|

ERMA Group HSR002670

2.2. Label Elements

Hazard statements

H402 - Harmful to aquatic life

Precautionary Statements - Prevention

P273 - Avoid release to the environment

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

Safety Data Sheet

ASAFLEX LIQUID
Revision Number 2.01

Revision Date 30-Jan-2018
Supersedes Date: 23-Aug-2017

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical Name | CAS No | Weight-% |
|---|------------|----------|
| 2,2,4-Trimethylpentane-1,3-diol monoisobutyrate | 25265-77-4 | 1 - <3 |

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---|--|
| Inhalation | Remove to fresh air. |
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |
| Self-Protection of the First Aider | Use personal protective equipment as required. |

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

4.4. Reference to Other Sections

Reference to other sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11: TOXICOLOGY INFORMATION.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

| | |
|---------------------------------------|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable Extinguishing Media | No information available. |

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.

5.3. Advice for firefighters

Special Protective Equipment for Fire-fighters Wear self-contained breathing apparatus and protective suit.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

Safety Data Sheet

ASAFLEX LIQUID
Revision Number 2.01

Revision Date 30-Jan-2018
Supersedes Date: 23-Aug-2017

6.2. Environmental precautions

Environmental Precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Protect from moisture.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas.

7.2. Conditions for safe storage, including any incompatibilities

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions Keep from freezing. Protect from moisture. Protect from direct contact with water or excessive moisture.

Incompatible Materials No information available

7.3. Specific end use(s)

Other Information No information available.

7.4. References to Other Sections

Reference to other sections Section 13: DISPOSAL CONSIDERATIONS. Section 10: STABILITY AND REACTIVITY.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

OTHER INFORMATION No information available

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

PPE - Personal Protection Equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Safety Data Sheet

ASAFLEX LIQUID
Revision Number 2.01

Revision Date 30-Jan-2018
Supersedes Date: 23-Aug-2017

| | |
|---------------------------------------|--|
| Skin and Body Protection | Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions. |
| Hand Protection | Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers. |
| Respiratory Protection | No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended. |
| General Hygiene Considerations | Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. |

Environmental Exposure Controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Appearance | Liquid |
| Color | White |
| Odor | Acrylic |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|----------------------------|
| pH | No information available | |
| Melting point / freezing point | No information available | |
| Boiling point / boiling range | No information available | |
| Flash Point | No information available | |
| Evaporation Rate | No information available | |
| Flammability (solid, gas) | No information available | Not applicable for liquids |
| Flammability Limit in Air | | |
| Upper flammability limit: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor Pressure | No information available | |
| Vapor Density | No information available | |
| Relative Density | No information available | |
| Water Solubility | Dispersible | |
| Solubility in Other Solvents | No information available | |
| Partition Coefficient | No information available | |
| Autoignition Temperature | No information available | |
| Decomposition Temperature | No information available | |
| Kinematic Viscosity | No information available | |
| Dynamic Viscosity | No information available | |
| Explosive Properties | No information available | |
| Oxidizing Properties | No information available | |

9.2. Other information

| | |
|----------------------------|--------------------------|
| Softening Point | No information available |
| Molecular Weight | No information available |
| Solvent content (%) | No information available |
| Solid content (%) | No information available |
| Density | 1.02 g/cm ³ |
| Bulk Density | No information available |
| VOC | <= 1 g/L |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

10.3. Possibility of hazardous reactions

Safety Data Sheet

ASAFLEX LIQUID
Revision Number 2.01

Revision Date 30-Jan-2018
Supersedes Date: 23-Aug-2017

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Protect from moisture.

10.5. Incompatible materials

Incompatible Materials No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation No data available.
Eye contact No data available.
Skin Contact No data available.
Ingestion No data available.

Numerical measures of toxicity

Unknown acute toxicity

30.16326 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
30.16326 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
32.17426 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
32.17426 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
32.17426 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|-----------------------|-------------------------|
| 2,2,4-Trimethylpentane-1,3-diol monoisobutyrate 25265-77-4 | = 6500 mg/kg (Rat) | > 15200 mg/kg (Rat) | > 3.55 mg/L (Rat) 6 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation No information available.
Serious Eye Damage/Eye Irritation No information available.
Sensitization No information available.
Germ Cell Mutagenicity No information available.
Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Target Organ Effects No information available.
Aspiration hazard No information available.
Carcinogenicity No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Safety Data Sheet

ASAFLEX LIQUID
Revision Number 2.01

Revision Date 30-Jan-2018
Supersedes Date: 23-Aug-2017

Product Information

Harmful to aquatic life.

Component Information

Data obtained on the component(s) include

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|--|---|--|
| 2,2,4-Trimethylpentane-1,3-diol monoisobutyrate 25265-77-4 | EC50 72 h = 18.4 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h = 30 mg/L (Pimephales promelas) | EC50 (48hr)=164.7 mg/L (daphnia magna) |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORTATION INFORMATION

IMDG Not regulated

IATA Not regulated

ADR Not regulated

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

Key Literature References and Sources for Data

No information available

Safety Data Sheet

ASAFLEX LIQUID
Revision Number 2.01

Revision Date 30-Jan-2018
Supersedes Date: 23-Aug-2017

Prepared By Product Safety & Regulatory Affairs

Revision Date 30-Jan-2018

Revision Note Not applicable.

Training Advice No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet